

ACC NR: AP6033959

(N) SOURCE CODE: UR/0375/66/000/008/0057/0065

AUTHOR: Sarkisov, A. A. (Engineer; Captain 1st Rank; Docent; Candidate of Technical Sciences)

ORG: None

TITLE: The most advantageous reactor shut-down program

SOURCE: Morskoy sbornik, no. 8, 1966, 57-65

TOPIC TAGS: nuclear reactor characteristic, nuclear reactor control, nuclear reactor operation, nuclear reactor technology, pulse shape, fission product, poison effect

ABSTRACT: Some of the variables which affect the nuclear reactor after shut-down are examined and discussed, the most advantageous program for shut-down is cited. Graphs are used to explain and illustrate the effect of shut-down time on contamination kinetics, the dependence of xenon concentration on shut-down time for three different values of neutron current, and the effects of smooth and pulsed changes of reactor power on shut-down on xenon concentration levels. The studies by L. S. Pontryagin, Ash, Bellman, Caleb, V. N. Artamkin, G. V. Vasenkova, R. Fedorenko and others on the problems of programming optimum shut-down regimes are discussed. Special attention is devoted to the optimum control structure obtained by Zoltan

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and Layne. It is concluded that the simplest, and a quite effective, program is one in which shut-down is accomplished with a single square pulse, although the theoretically most advantageous program would not necessarily be attainable in practical situations. Orig. art. has: 9 figures and 8 formulas.

SUB CODE: 13 / SUBM DATE: None

SARKISOV, A.G., DRAGINSKIY, Ya.S.

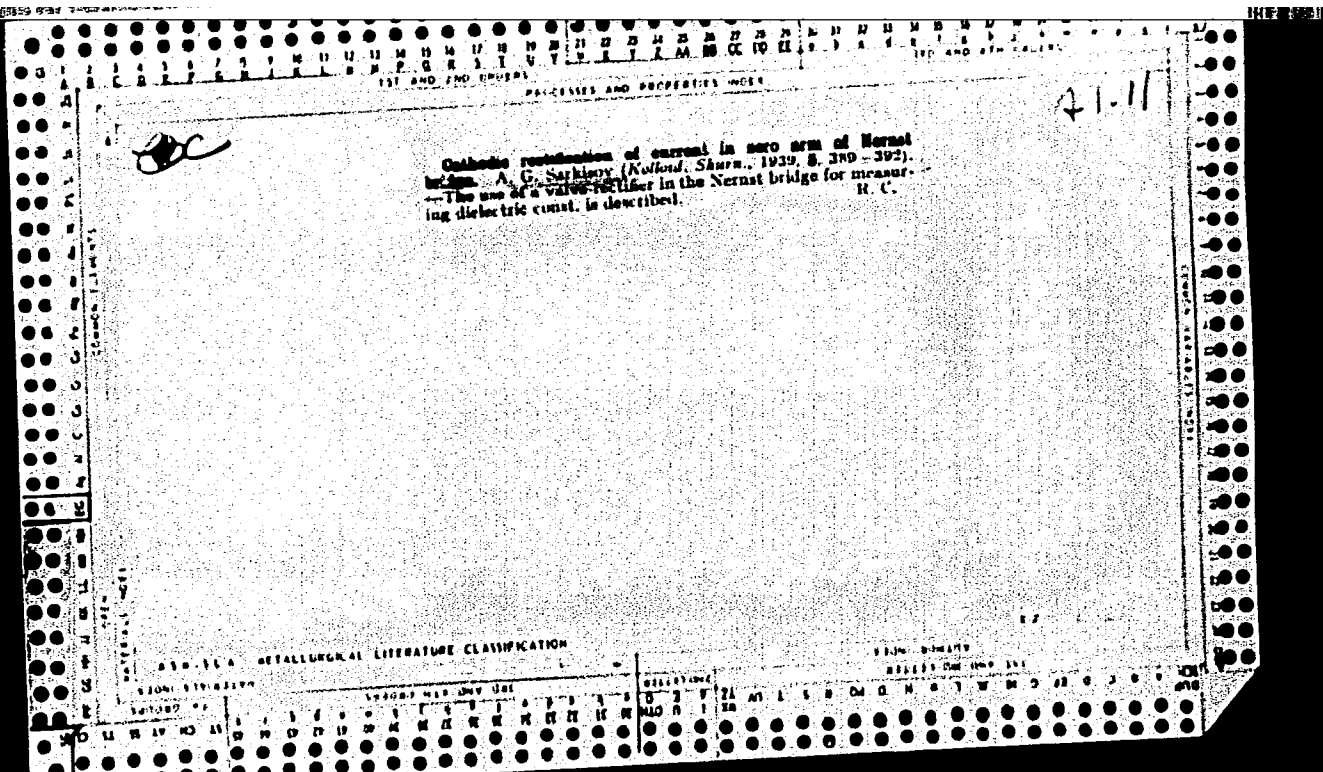
Incidence of disease with temporary disability among medical personnel.
Sov.sdrav. 17 no.7:29-35 J1 '58 (MIRA 11:8)

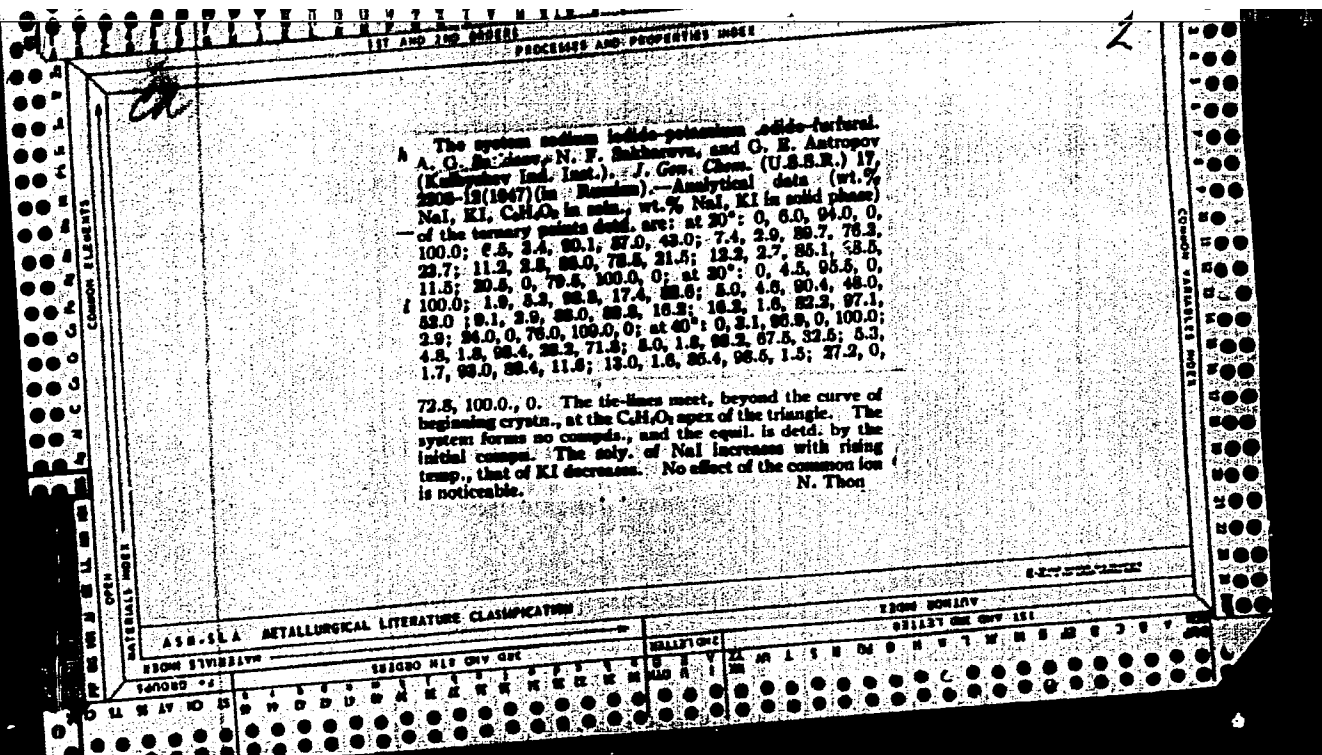
1. Iz ob'yedinennoy polikliniki Ministerstva putey soobshcheniya
(nachal'nik A.G. Sarkisov).
(MEDICAL PERSONNEL--DISEASES AND HYGIENE)

SARKISOV, A.G.; BRAGINSKIY, Ya.S. (Moskva)

Dispensary care of patients with chronic diseases. Sov. zdrav. 20
no.8:47-53 '61. (MIRA 15:1)

1. Iz Ob'yedinennoy polikliniki (nachal'nik - zasluzhennyy vrach
RSFSR A.G.Sarkisov) Ministerstva putey soobshcheniya.
(MOSCOW--HOSPITALS--OUTPATIENT SERVICES)





SARKISOV, ~~N.I.~~ A.G.

PA 62/49110

USSR/Chemistry - Arginine
Methanol, Solutions

Apr 49

"The Effect of Arginine on the Equilibrium of
Methanol Solutions of NaI - KI," A. G. Sarkisov,
N. F. Sakharova, G. Ye. Antropov, Lab of Gen Chem,
Kuybyshev Ind Inst, 5¹/₂ pp

"Zhur Obshch Khim" Vol XIX, No 4

Investigation of the effect of arginine at 300
determined that the solubility of NaI, KI, and
their mixtures is less in the presence of the
arginine than it is in pure methanol. Submitted
23 Dec 47.

63/49116

SARKISOV, A.G.

Solubility of lithium chloride and nitrate in some mixed solvents. A. G. Sarkisov and S. Z. Melamed. *Sbornik Nauch. Trudov Khim. Ind. Inst.* 1953, No. 4, 169-200. Referat. *Zhur., Khim.* 1954, No. 43726. — The soly. of LiCl was studied in mixts. of $H_2O-CH_3COCH_3$, $CH_3COCH_3-C_6H_5OH$, $C_6H_5OH-H_2O$, H_2O -dioxane, and dioxane-iso- C_6H_5OH , and also the soly. of LiCl + LiNO₃ in dioxane-iso- C_6H_5OH . An attempt was made to relate the soly. of LiCl to the dielec. properties of the solvents. For H_2O having a dielec. const. of 81 the soly. of LiCl reaches 50%, whereas for dioxane having a dielec. const. of 2.23 the soly. is practically 0. For a binary mixt. of solvents the soly. depends on the additively combined dielec. properties of the mixed solvents. However, this rule did not hold in a no. of cases. CH_3COCH_3 and C_6H_5OH , having dielec. consts. 21.6 and 17, resp., dissolved LiCl to the same extent. Iso- C_6H_5OH , having a dielec. const. 6.7, dissolved LiCl better than did CH_3COCH_3 and C_6H_5OH . In very small dilns., the additivity rule did not hold. The highest soly. of LiCl + LiNO₃ was observed in mixts. with a high content of iso- C_6H_5OH ; this is attributed to the higher dielec. const. of the mixed solvent. M. Hosell

SARKISOV, A.G., zasluzhennyy vrach RSFSR; IVANOV, B.A., vrach

Working on a hot day. Put' i put.khoz. 5 no.8:29-30 Ag '61.
(MIRA 14:10)

(Heat--Physiological effect) (Hygiene)

SARKISOV, A.G.

Rapid determination of moisture by the volumetric method. Khim.
v shkole 16 no. 3:77-79 My-Je '61. (MIRA 14:5)

1. Pedagogicheskiy institut, Kuybyshev.
(Moisture)

SARKISOV, A.G.

Route of the Shaim-Tyumen' petroleum pipeline. Stroi. truboprov.
10 no.2:3-4 F '65. (MIRA 18:5)

SARKISOV A.I.
SARKISOV, A.I.; KHALAPOV, M.S.

Struggle of the workers of Baku for their rights on the eve of the
Revolution of 1905. Uch. zap. AGU no.2:141-152 '57. (MIRA 11:1)
(Baku--Strikes and lockouts--Petroleum industry)
(Collective labor agreements--Petroleum industry)

SARKISOV, A.I., kand.yuridicheskikh nauk

Accident prevention in public health institutions. Azerb. med.
zhur. no.6:74-80 Je '61. (MIRA 14:6)
(PUBLIC INSTITUTIONS, SAFETY MEASURES)

110

SARKISOV, A. Kh.

A new nutrient medium for the preparation of tuber-
culin. D. A. Tsuvelkalov and A. Kh. Sarkisov. Z.
Microbiol. Epidemiol. Immunopatol. (U.S.S.R.) 17,
607-706 (in German 706) (1936).—The hydrolysis of po-
tatoes by means of H_2SO_4 converts practically all the nu-
trient material into a sol. form contg. the optimum com-
bination of org. and inorg. nutrients for the culture of
tubercle bacilli. S. A. Karjala

ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION

SARKISOV, A. Kh; ORSHANSKAYA, V. N.

"Laboratory Diagnosis of the Toxic Variety of the Fungus Stachybotrys Alternans"

9 pp no date

Being translated March 1954

No. 54 28 Apr 1954 p 75

m

Set: Vol 21, No 2-3, 1944. p. 38-41

SARKISOV, A. KH.

SARKISOV, A. KH. (Candidate of Biological Sciences, Director of All-Union scientific Research Laboratory for the Study of Toxic fungi, Ministry of Agriculture, USSR). Veterinary mycology.

So: Veterinariya; 24; 12; December 1947; Uncl.

TABCON

ibid., Trans. 74 by L. Lulich

Sarkisov, A. Kh.

61/49T12

USSR/Biology

Fungus
Toxicology

Nov 4

"New Biologically Toxic Characteristics of the Fungus *Fusarium Sporotrichioides* Sherb.", A. Kh. Sarkisov, Ye. S. Krashnina, All-Union Sci Res Inst for Study of Toxic Fungi, Min of Agr USSR, Moscow 22 pp

"Dokl Ak Nauk SSSR" Vol LXIII, No 1

Series of studies show that grain crops remaining under snow through the winter become poisonous due to presence of *Fusaria sporotrichioides*. Culture

61/49T11

USSR/Biology (Contd)

Nov 4

and morphological studies of toxic varieties proved they do not differ from those described in literature. Submitted by Acad B. L. Isachenko 4 Sep 48.

61/49T1

SARKISOV, A. Kh.

"Stachbotryotoxicosis" (article)

In second edition of "Special Epizootiology" no date, edited by Prof. S. N. Vyshellesskiy

Criticized in a review of the book by Prof. I. Lukashov and Lecturer M. Avvakumov, for failure to underscore the priority of native veterinary science in the study of the disease, and for not giving names of Soviet scientists who have received Government awards and who have solved the problems on the etiology, clinic, hematological picture, treatment and prophylaxis of the illness.

So: Veterinariya, 27, No. 10, Oct 1950 60-63

m

KISOV

SARLOSPV, A. Kh., Cand. of Biological Sci.; DZHILAVIAN, Kh. A;
AYSENSHTAT, TS. I.,

"Medicinal action of "muchel" (a farinaceous substance) in ringworm."

SO: Vet. 27 (11) 1950, p. 19

SARKISOV, A. Kh.

Atlas Gribov Patogennykh Dlya Sel'skokhozyaystvennykh Zhivotnyky i Ptits
[Atlas of Mushrooms, which are Poisonous to Farm Animals and Poultry, By]
A. Kh. Sarkisov, V. F. Kapustin [i Dr.] Moskva, Sel'khozgiz, 1953.
158 p. Illus.

At Head of Title: Russia. Ministerstvo Sel'skogo Khozyaystva SSSR.

N/5

632.314

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SARKISOV, A.Kh. (Doctor of Biology)

A. Kh. Sarkisov, Doctor of Biology, Mikotoksikozy (Gribkovyye otravleniya)
[Mycotoxicozes (Fungus Poisoning)], Sel'khozgiz, 21 sheets. 1954 — 214 pp.

This is the first fundamental work on mycotoxicozes to appear in the literature. Mycotoxicozes are the diseases of animals induced by the introduction of parasitic fungi into the organism.

Book intended for veterinary and zootechnical workers.

SO: U-6472, 15 Nov 1954

SARKISOV, A.Kh., professor; GREZIN, V.F., kandidat veterinarnykh nauk;
~~DEHYAVIAN~~ DEHYAVIAN, Kh.A., kandidat veterinarnykh nauk; AKULOVA, N.S.,
kandidat veterinarnykh nauk.

Antibiotics in veterinary medicine. Veterinariia 32 no.5:42-50
My '55. (MLRA 8:7)

1. Vsesoyuznaya nauchno-issledovatel'skaya laboratoriya po izu-
cheniyu yadovitykh gribov.
(ANTIBIOTICS) (VETERINARY MEDICINE)

SARKISOV, A.Kh., prof.; DZHIKAVYAN, Kh.A., kand. vet. nauk; AKULOVA, V.P., kand. vet. nauk; PARFENOV, I.S.; D'YAKONOVA, Ye.V., mladshiy nauchnyy sotrudnik; FAYNSHTEYN, B.B., inzh.-khimik; PAVLOV, A.A.

Use of biovetin in veterinary medicine. Veterinariia 36 no.11:
64-71 N '59 (MIRA 13:3)

1. Vsesoyuznyy institut eksperimental'noy veterinarii (for Sarkisov, Dzhilavyan, Akulova, Parfenov, D'yakonova). 2. Moskovskiy khimiko-farmatsevticheskiy zavod imeni Karpova (for Faynshteyn). 3. Zavednyushchiy eksperimental'nyy tsekhom Moskovskogo khimiko-farmatsevticheskogo zavoda imeni Karpova (for Pavlov).
(Veterinary medicine) (Aureomycin)

ROSTOVTSEV, N.F., akademik, red.; KOVALENKO, Ya.R., prof., red.;
 SERGEYEV, S.P., red.; MOISEYEV, I.A., red.; SARKISOV, A.Kh.,
 prof., doktor biolog.nauk, red.; MITROPANOVA, V.P., tekhn.red.

[Raising and housing young farm animals; materials of the
 Out-Session of the Department of Animal Husbandry of the Lenin
 All-Union Academy of Agricultural Sciences, Kurgan, July 29th-
 August 1st, 1960] Vyrashchivanie i sokhranenie molodniaka
 sel'skokhozyaystvennykh zhivotnykh; sbornik materialov vyezdnogo
 plenuma otdeleniya zhivotnovodstva VASKhNIL, sostoiavshegosia
 v g.Kurgane s 29 iul'ia po 1 avgusta 1960 g. Kurgan, Izd-vo
 gazety "Sovetskoe Zaural'e," 1961. 273 p.

(MIRA 14:4)

1. Vsesoyuznaya akademiya sel'skokhozyaystvennykh nauk imeni
 V.I.Lenina. 2. Otdeleniye zhivotnovodstva Vsesoyuznoy akademii
 sel'skokhozyaystvennykh nauk imeni V.I.Lenina (for Rostovtsev).
3. Chlen-korrespondent Vsesoyuznoy akademii sel'skokhozyaystvennykh
 nauk imeni V.I.Lenina i Vsesoyuznyy institut eksperimental'noy
 veterinarii (for Kovalenko). 4. Vsesoyuznyy institut eksperimental'-
 noy veterinarii (for Sarkisov).

(Stock and stockbreeding)

SARKISOV, A.Kh., prof.; DZHILAVYAN, Kh.A., kand. veter. nauk;
YEZHOV, V.I., aspirant

Antibiotic polymyxin for acute gastrointestinal diseases.
Veterinariia 38 no.9:62-66 S '61. (MIRA 16:8)

1. Vsesoyuznyy institut eksperimental'noy veterinarii.

SARKISOV, A.Kh., prof.

Antibiotics in animal husbandry. Zhur. VKHO 8 no.6:639-646 '63.
(MIRA 17:2)

SARKISOV, A. Kh.; TRISHKINA, Ye. T.

"Sensitivity of pathogenic microorganisms to various antibiotics."

report submitted for Antibiotics Cong, Prague, 15-19 Jun 64.

Antibiotical Lab, All-Soviet Inst Experimental Veterinary Medicine, Min of
Agriculture USSR, Moscow.

SARKISOV, A. Kh.

"Problems of non-medical use of antibiotics."

report submitted for Antibiotics Cong, Prague, 15-19 Jun 64.

All-Union Inst for Experimental Veterinary Medicine, Min Agriculture, USSR, Moscow.

142200-56 EWT(1)/T JK

ACC NR: AP6005016

(A)

SOURCE CODE: UR/0346/65/000/011/0019/0023

AUTHORS: Sarkisov, A. Kh. (Professor); Trishkina, Ye. T. (Candidate of veterinary sciences)

ORG: All-Union Institute of Experimental Veterinary Medicine (Vsesoyuznyy institut eksperimental'noy veterinarii)

TITLE: The problem of resistance of pathogenic microorganisms to antibiotics

23
B

SOURCE: Veterinariya, no. 11, 1965, 19-23

TOPIC TAGS: veterinary medicine, antibiotic, microbiology, tetracycline

ABSTRACT: Because of the development of antibiotic-resistant microorganisms, the laboratory of antibiotics of VIEV studied the resistance to antibiotics of epizootic strains of bacteria during the period 1958--1965. Results of the study of 2029 strains of pasteurellosis, erysipelas, and paratyphus bacteria, (including 1425 epizootic strains isolated during years of wide use of antibiotics in hog and poultry raising, and 56 museum strains isolated when antibiotics were not used in animal husbandry, show that resistance to antibiotics of agents causing erysipelas and pasteurellosis had not changed essentially. A study was made of the antibiotic resistance of 1420 strains of salmonella, including *S. pullorum* -- 546, *S. enteritidis* -- 228, *S. typhimurium* -- 70, and *S. cholerae suis* -- 576. Essential

L 27484-66 EWT(1)/T JK

ACC NR: AP6012250 (A) SOURCE CODE: UR/0346/65/000/012/0018/0021

AUTHOR: Sarkisov, A. Kh. (Professor); Koroleva, V. P. (Candidate of Biological Sciences); Nikiforov, L. I. (Junior Research Associate) ²⁶_B

ORG: All State Institute of Experimental Veterinary Science
(Vsesoyuznyy institut eksperimental'noy veterinarii)

TITLE: Preparation and application of economical forms of griseofulvin for trichophytosis prophylaxis

SOURCE: Veterinariya, no. 12, 1965, 18-21

TOPIC TAGS: veterinary medicine, animal parasite,
animal disease therapeutics, antibiotic

ABSTRACT: Native forms of griseofulvin⁶ having high antibiotic activity were prepared at the All-State Institute of Experimental Veterinary Science (VIEV) from 2 strains of *Penicillium nigricans* obtained from the Leningrad Antibiotics Institute. The activity of the initial cultures Nos. 964 and 548 was 300-3100 and 4800-14,000 gamma/gm of preparation, respectively. The activity of the corresponding variants obtained at VIEV was 3200-7290 and 10,000-19,000 gamma/gm. Surface fermentations using sterile grain substrates were used. Although expected to be more

L 27484-66

ACC NR: AP6012250

toxic than pharmacopoeial preparations, these native forms were harmless to animals, their cost was about one-fourth, and their prophylactic effect against ringworm was equivalent when used in doses of 20 mg/kg body weight. Since large scale production will require time, available preparations should be used primarily in stock farms. Orig. art. has: 2 tables.

SUB CODE: 02 / SUBM DATE: none

SARKISOV, A.Kh.; TRISHKINA, Ye.T.

Antibiotic sensitivity of micro-organisms pathogenic to farm animals and poultry. Antibiotiki 10 no.1:76-78 Ja '65. (MIRA 18:4)

1. Laboratoriya antibiotikov (zav. - prof. A.Kh.Sarkisov)
Vsesoyuznogo instituta eksperimental'noy veterinarii, Moskva.

TOLSTOV
SARKISOV, A.L. 105-7-21/29

AUTHOR TOLSTOV, Yu.G., D.tech. sc., SARKISOV, A.L., Cand. tech. sc.
 TITLE On the Prospects of Rectifier Valves and Rectifiers
 (O perspektivakh dugovykh ventiley i o mekhanicheskikh vypryamitelyakh.
 Russian)
 PERIODICAL Elektrichestvo, 1957, Nr 7, pp 82 - 85 (U.S.S.R.)
 ABSTRACT This is the author's reaction to N.S. KLIMOV'S article in Elektrichestvo, 1956, Nr 12. The evaluation of the rectifier valve suggested by KLIMOV is irrationally optimistic. From his work we can not see in which field the polyphase rectifier valve should be used. First the suggestion to use the polygon scheme is criticised and the author shows that in the end it will be much more expensive than that with several bridges. Then the statement on the characteristics of rectifier valves are disproved of as well as the statement that the electrodes are less damaged. Based on a detailed criticism of KLIMOV'S suggestion the author shows that the polyphase rectifier valve proposed by KLIMOV in consequence of a number of serious deficiencies is a hopeless case (With 1 table, 1 illustration and 2 Slavic references).

Card 1/2

105-7-21/29

On the Prospects of Rectifier Valves and Rectifiers

ASSOCIATION

"Khrizhchanovskiy" Institute for Energetics of the Academy of Sciences of
the U.S.S.R.

(Energeticheskiy institut im. Krzhizhanovskogo Akademii nauk SSSR)

PRESENTED BY

SUBMITTED

AVAILABLE

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SARKISOV, A. L.
P. R. +10

14(6), 8(0)

PHASE I BOOK EXPLOITATION

SOV/3071

Akademiya nauk SSSR. Energeticheskiy institut

Elektroenergetika, vyp. 1 (Electric Power Engineering, Nr 1) Moscow, Izd-vo AN SSSR, 1959. 159 p. Errata slip inserted. 2,800 copies printed.

Eds. of Publishing House: P. F. Ogarkov and Ye. N. Grigor'yev; Tech. Ed.: Ye. V. Zelenkova; Editorial Board: Yu. G. Tolstov, Doctor of Technical Sciences (Resp. Ed.), I. M. Markovich, Doctor of Technical Sciences, I. S. Stekol'nikov, Doctor of Technical Sciences, P. I. Zubkov, Candidate of Technical Sciences, G. V. Mikhnevich, Candidate of Technical Sciences, V. I. Levitov, Candidate of Technical Sciences, and N. D. Bol'shov (Secretary)

PURPOSE: This collection of articles is intended for specialists in the various fields of electric power engineering treated in it.

COVERAGE: The first issue of the collection of articles, "Elektroenergetika", appeared in April 1959. It is published by ENIN imeni G. M. Krzhizhanovskiy of the Academy of Sciences, USSR. The articles in this issue are based on research and work by the

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authors under the auspices of ENIN. The articles are on a high theoretical and technical level and represent original contributions to various present-day problems in electrical engineering. References are given after most of the articles.

TABLE OF CONTENTS:

Tolstov, Yu. G., and A. L. Sarkisov. Arc Rectifiers With Increased Pressure 3

In 1954 and 1955 several theoretical and experimental investigations were made at the Institute in order to determine the possibility of using hot-cathode arc rectifiers with increased pressure for long-distance d-c power transmission. The investigations were aimed at improving the parameters of E. Marx arc rectifiers produced in Germany before and during the war. The authors conclude that, despite improvements, modern mercury arc rectifiers are superior to the hot-cathode ones and recommend use of the former in long-distance d-c power transmission. The following organizations and scientific personnel participated

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in the investigations together with ENIN: IMYeT - D.A. Petrov, K. M. Korol'kov, R. L. Petrusevich; MGU - N. A. Kaptsov, M. Z. Khokhlov and the welding section; Academy of Sciences, USSR - N. N. Rykalin, Corresponding Member of the Academy, I. D. Kulagin, A. I. Pugin and others. There are 4 references: 3 Soviet and 1 German.

Neyman, L. R., Ye. G. Burtseva, and S. R. Cliternik. Model of D-C Electric Power Transmission System of the Power Engineering Laboratory imeni M. A. Shatelen, ENIN AN SSSR 12

This d-c high-voltage network analyzer (model) was built at the laboratory in 1952/53. The following investigations are being conducted with it: increase of reliability and stability of network operation and effect of d-c electric power transmission on the static and dynamic stability of an a-c power system. The investigations are being conducted under the supervision of L. R. Neyman, Corresponding Member of the Academy of Sciences, USSR. There are no references.

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Kovalev, F. I., and G. P. Mostkova. High-Frequency Oscillations in Rectifying Units With Saturable Reactors 20

As a result of investigations conducted at the NIPT, ENIN, and other organizations, methods were found for damping complex oscillations generated in converter installations. This was accomplished by switching a bypass circuit consisting of capacitances and resistances connected in series into the rectifier and power transformer phases. There are 6 references: 2 Soviet, 2 English, 1 German and 1 Italian.

Pyrkov, V. V. Problem of Designing Saturable Reactors for Low-Voltage Contact Rectifiers 31

The author considers the problem of designing saturable reactors for d-c low-voltage supply for electrochemical and electrometallurgical industries, which has not been adequately treated in the current literature. He aims at presenting a systematic survey of existing methods and suggests certain concrete recommendations on methods of calculating saturable reactors. There are 10 references: 2 Soviet, 6 German and 2 English.

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Utevskiy, A. M. Theory and Method of Designing Voltage-Doubling Rectifiers With a Capacitive Filter 44

The method suggested by the author was tested experimentally and found to satisfy engineering requirements. There are 11 references: 7 Soviet, 2 German and 2 English.

Gorelkin, N. V., Sh. I. Lutidze and P. M. Shpileva. Electronic Excitation of Synchronous Generators Using a Six-phase Circuit With a Buffer Rectifier 54

The authors credit Academician K. I. Shenfer with the first studies in 1933 on the problems of electronic excitation. Recent theoretical investigations on this subject were conducted in the USSR by D. A. Zavalishin, I. A. Glebov, Ye. L. Ettinger and by the electromechanics laboratory of ENIN. The authors made a number of investigations of electronic excitation on laboratory models using different circuit combinations. All of the methods using buffer rectifiers were introduced by the laboratory. The methods and results of

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investigations are presented. There are 3 references, all Soviet.

Lutidze, Sh. I. Analysis of an Electronic Exciter Connected Through a Three-phase Circuit With a Buffer Rectifier.

67

The author investigates simple and reliable three-phase electronic exciter systems with buffer rectifiers and applies the method of symmetrical components to obtain expressions for currents and voltages. This article is a continuation of the previous one. There are 3 references, all Soviet.

Gorelkin, N. V. and P. M. Shpileva. Application of Germanium Rectifiers in Excitation Circuits of Synchronous Generators

93

The electromechanics laboratory of ENIN developed, in 1956, an experimental installation of a synchronous generator equipped with a rotating germanium rectifier in a bridge circuit with germanium diodes of the DGTs-24 type. Results of experiments are presented. There are 5 references: 4

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Soviet and 1 English.

Kozlovskiy, G. F., and G. V. Mikhnevich. Equivalent Circuit of Station Generators Equipped With Strong-Action Regulators 98

The author presents a method of representing a group of n station generators by two identical generators equivalent to the group in their static characteristics. The method is used in studying static stability and the nature of transients of station generators. There are 4 references, all Soviet.

Gorushkin, V. I. Application of the Method of Successive Approximations for Calculating Complex Electrical Networks 105

There are 7 references, all Soviet.

Gol'tsov, N. A. Transformation of a Single-phase System Into a Three-phase Using Static Devices According to a Scheme Developed by P. A. Kalantarov and L. A. Tseytlin 114

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The method used consists in employing capacitors in the circuit. The author derives formulas expressing the transformation. There are 3 references, all Soviet.

Aronzon, N. Z. Properties of a Certain Type of Oscillatory Circuit 117

No references are given.

Gol'tsov, N. A. Application of a Series of Functions for the Derivation of Formulas of Various Numerical Methods for Solving Ordinary Differential Equations 120

There are 3 references, all Soviet.

Stekol'nikov, I. S. The Mechanism of Discharge in Large Gap Spacings for Alternating Current 127

The author, a well-known specialist in problems of lightning protection, investigated the mechanism of discharge at in-

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all of them having practical applications. On the basis of several experiments, using various types of circuits and varying the parameters, the author concludes that the electric strength of a given spacing is not subject to substantial change when circuit parameters are varied. There are 8 references: 2 Soviet, 4 English and 2 German.

Pomiluyko, N. S. Electronic Electrothermic Anemometer With Semiconductor Pickups

142

Experimental investigation conducted at the electromechanics laboratory of ENIN on aerodynamics and heat transfer using turbogenerator models necessitated further development of methods of measuring temperatures and velocities in rotor and stator channels. To overcome difficulties encountered when using conventional methods of measurement (Prandtl tubes) the author developed semiconductor ball pickups and an electrothermic anemometer. He was assisted in this work by A. P. Pereleshina, Candidate of Technical Sciences, and mechanics I. A. Krupenin, B. I. Postnikov, and V. K. Semenov.

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No references are given.

Sarkisov, A. L., Yu. L. Belous. Method of Determining Dynamic Voltampere Characteristics of Semiconductor Rectifiers on an Oscillograph

148

The authors describe a method of obtaining the real operational (dynamic) voltampere characteristic directly on the screen of a cathode-ray oscillograph by supplying, simultaneously on the horizontal and vertical pairs of the oscillograph, plate voltages proportional to the forward current and forward voltage (during the conductive part of the period) and to the reverse current and reverse voltage (during the non-conductive part of the period). The results of tests are presented. No references are given.

Moskvitin, A. I. The Most Advantageous Copper Space Factor in Direct-Cooling of Electric Machines

153

The author attempts to determine an optimum copper space factor which it is possible to increase the current load

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to a maximum and to determine simultaneously maximum efficiency of internal cooling. For quantitative investigation the author uses formula which he derived by solving an equation of thermal conductivity with given marginal conditions. Results of the investigation are presented. There are 4 references: 2 Soviet, 1 English and 1 German.

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JP/ec
2-9-60

SARKISOV, A.L.; NEYMAN, Ye.A.

Layout of a seven-electrode shielded probe for a three-strand cable with a grounded control of the current of shielded electrodes. Trudy MINKHIGP no.41:178-181 '63. (MIRA 16:10)

NECHUSHKIN, A.M.; BELASH, P.M.; BELOV, V.F.; SARKISOV, A.L.

Semiconductor pressure gauges for gas mixtures. Izv. vys.
ucheb. zav.; nef't' i gaz 7 no.11:89-91 '64. (MIRA 18:11)

1. Moskovskiy institut neftekhimicheskoy i gazovoy promyshlen-
nosti im. akademika I.M. Gubkina.

L 58821-65

ACCESSION NR: AR5000578

S/0271/64/000/009/B017/B018

681.142.33

SOURCE: Ref. zh. Avtomat., telemekh. i vychisl. tekhn. Sv. t., Abs. 9E119

4
B

AUTHOR: Kirilichev, A. M.; Sarkisov, A. L.

TITLE: Instrument for oscillographic recording the nodal potentials in the electric rotary-type integrators

CITED SOURCE: Tr. Mosk.in-t neftekhim. i gaz. prom-sti, vyp. 47, 1964. 60-63

TOPIC TAGS: integrator, electric integrator, oil field development

TRANSLATION: EI-21, EI-22, EI-31, and other electric network simulators have been used for solving various engineering and scientific problems describable by Fourier-type partial differential equations; these simulators have been successfully used to solve problems of petroleum and gas fields. The single nonstationary process of a well has been simulated by a periodic process of changing the parameters of the field. The results of the simulation of the nodal potentials of the unknown potentials by the compensation method may occupy a special place. Hence, automatic measurement is expedient for such simulators. An

Card 1/2

L 58821-65

ACCESSION NR: AR5000578

linear (wire-type) potentiometer rotated by the mechanism of the process periodi-
zation. A d-c voltage depending on the scan size (150 v for the full-screen scan)
is applied to the potentiometer input. The sawtooth voltage taken from the
potentiometer has a period exactly equal to the period of the phenomenon in
question, so that no special synchronization is necessary. The process is recorded
with each revolution of the rotating device. In lieu of a d-c amplifier, a
conventional 2-stage resistive voltage amplifier is used, the slow-varying test
signal being transformed into h-f oscillations. The vertical deflection amplifier
uses higher-frequency oscillations whose amplitude is varied according to the
test signal. The frequency is set by a computer. An RF-4 polarized
antenna is used for the transmission of the signal. The antenna is a
log-periodic antenna.

SUB CODE: EC, IE

ENCL: 00

Card 2/2

L 58733-65 EED-2/ENT(d)/ENP(1) Pg-4/Pk-4/Pq-4 I,IP(c) GG/BB
ACCESSION NR: AR5002397 S/0271/64/000/010/BO19/BO19
621.317.329

SOURCE: Ref. zh. Avtomat., telemekh. i vychisl. tekhn. Sv. t., Abs. 10B113

AUTHOR: Kirilichev, A. M.; Sarkisov, A. L.

TITLE: Designing electric integrators with contactless diode switches

CITED SOURCE: Tr. Mosk. in-t neftekhim. i gas. prom-sti, vyp. 47, 1964, 64-66

SARKISOV, A. L.; ZHIMERIN, D. G.

"Role of electricity systems in the USSR in meeting rapidly-growing requirements for electric power."

report submitted for Economic Comm for Europe Electric Power Symp, Istanbul, May 1965.

SARKISOV, A.V.

22225 Sarkisov, A. V. K izucheniyu narodnogo zhilishcha Azerbaydzhana. (Zhilishche Konakhkendsk Raydna) Doklady (Akad-nauk Azerbaydzh SSR), 1949, No. 5, s 226-33--
Rezyume na azerbaydzh yaz--Bibliogr 5 nazv

SO: Letopis' Zhurnal'nykh Statey, No. 29, Moskva, 1949.

SARKISOV, D.S.

Toxic effects of tannin on renal and hepatic tissues in severe injuries due to burns; experimental investigations on burn injuries. Vest.khir.Grekova 70 no.6:20-22 1950. (GLML 20:5)

1. Of the Laboratory of Pathological Physiology (Head--G.L.Frenkel'), Leningrad Scientific-Research Institute of First Aid (Director--A.R.Grushkin; Scientific Director--Yu.Yu.Dzhanelidze, deceased).

1. SARKISOV, D. S.
2. USSR (600)
4. Burns and Scalds
7. Toxicity of tannic acid to liver and kidneys in severe burns. Novosti med. no. 24, 1951.

SARKISOV, D.S.; EBERT, L.Ya.

Certain peculiarities of the course of inflammatory processes of the lungs in cerebral trauma. Arkh. pat., Moskva 15 no.6:26-33 Nov-Dec 1953. (GLML 25:5)

1. Of the Department of Pathological Anatomy (Head -- S. S. Vayl') and the Department of Microbiology (Head -- A. V. Ponomarev), Naval Medical Academy, Leningrad.

SARKISOV, D.S.

Method of production of experimental pneumonia. Biol. eksp.
biol. i med. 37 no. 2: 74-75 F '54. (MIRA 7:6)

1. Iz Voenno-morskoy meditsinskoy akademii, Leningrad.
(PNEUMONIA, experimental,
*technic of prod.)

SARKISOV, D. S.

✓ Characteristics of reverse development of inflammatory changes in the lungs due to sodium bromide. D. S. Sarkisov (Naval Med. Acad., Leningrad). *Arkh. Patol.* 16, No. 2, 67-73 (1950).—Twenty cats were used in the expts, and 20 served as controls. All were infected with pneumococcus type II intratracheally. Test animals were then given subcutaneous injections of NaBr at the rate of 0.5–0.8 g./kg. This was done twice at intervals of 5 days. Three days later one test and one control cat were killed. The remaining animals were killed in pairs at given intervals of time until on the 30th day the last test-control pair were sacrificed. Inocula were made for possible culture of pneumococci from different parts of the animals' body and tissue samples were prepared for histologic study. The disturbance of the normal functional state of the central nervous system of the cat by the injection of large doses of NaBr affects the reverse course (recovery) of the inflammatory processes of the lungs and imposes upon the total clinical picture aspects of chronic pneumonia. B. S. L.

Name: SARKISOV, Donat Semenovich

Dissertation: On the Affect of Disturbances of Morphology and Functions of the Brain upon the Origin, Course, and Outcome of Experimental Pneumonia

Degree: Doc Med Sci

Affiliation: [not indicated]

Defense Date, Place: 8 Dec 55, Council of Naval Med Acad

Certification Date: 12 Jan 57

Source: BMVO 7/57

SARKISOV, D.S. (Leningrad)

Improved method for embedding sections in plastics [with summary in English]. Arkh.pat. 20 no.9:82-83 S'58 (MIRA 11:10)

1. Iz kafedry patologicheskoy anatomii Voenno-meditsinskoy ordena Lenina akademii imeni S.M. Kirova (nauchnyy rukovoditel' temy - prof. S.S. Vayl').

(HISTOLOGY,
embedding in plastics (Rus))

ANICHKOV, N.N., akademik; ZAKHAR'YEVSKAYA, M.A., prof.; TISHKIN, N.A.,
doktor med.nauk; SARKISOV, D.S., doktor med.nauk; PETRUKHIN, V.G.,
kand. med.nauk; PINCHUK, V.M., kand.med.nauk

Solomon Samuilovich Vail'; obituary. Arkh.pat. 21 no. 1:94-95 '59.
(MIRA 12:1)

(OBITUARIES,
Vail', Solomon, S. (Rus))

EXCERPTA MEDICA Sec 5 Vol 13/5 Gen. Path. May 60

1342. THE MORPHOLOGY OF THE STOMACH IN RADIATION DISEASE
(Russian text) - Vail S. S. and Sarkisov D. S. - ARKH. PATOL.
1959, 21/8 (17-25) Tables 1 illus. 6

Functional-morphological studies of the stomach in radiation disease have been relatively few. In the present experiments, 88 cats were used: 40 controls which were given the same meat diet as the test animals, and 28 cats which received either 500-600 r. or 300 r. irradiation and were subjected to short periods of fasting or of meat-free diet; 8-14 days after the irradiation the animals were killed. In those given the smaller dose of radiation (300 r.) no gastric alterations could be found when they were kept on a meat diet; as soon as the animals were placed on a meat-free diet (cereal and butter), however, they exhibited severe haemorrhages, and even ulcers of the stomach. Large doses of irradiation (500-600 r.) caused a regression (sometimes the abolition) of the digestive leucopeliosis, or changed its course to gastritis. A meat-free diet also caused gastric haemorrhages and ulcers; the latter were observed more frequently when the animals were given coarse, unusual sorts of food.

Brandt - Berlin (V, 14, 16)

SARKISOV, D.S.; REMEZOV, P.I.; VISHNEVSKIY, A.A., prof., red.; KRIMSKIY, L.D., red.

[Experimental reproduction of human diseases] Vosпроизvedenie boleznei cheloveka v eksperimente. Pod red. A.A.Vishnevskogo. Moskva, In-t khirurgii im. A.V.Vishnevskogo Akad.med.nauk SSSR, 1960. 779 p. (MIRA 13:10)

1. Deystvitel'nyy chlen Akademii meditsinskikh nauk SSSR (for Vishnevskiy).

(MEDICINE, EXPERIMENTAL)

SARKISOV, D.S.

Experimental models of human diseases. Eksper. khir. 5 no.1:3-7
Ja-F '60. (MIRA 13:12)

(PATHOLOGY)

SARKISOV, D.S.; DARBINYAN, T.M.; TSUKERMAN, B.M.; KRYMSKIY, L.D.

Production of chronic cardiac aneurysms in rabbits. Eksper. khir.
5 no. 2:53-54 Mr-Apr '60. (MIRA 14:1)
(ANEURYSMS) (CORONARY HEART DISEASE)

SARKISOV, D.S.; DARBINIAN, T.M.; MAZAYEV, P.N.; KRYMSKIY, L.D.; TSUKERMAN,
B.M.

Method inducing graduated stenosis of the aorta and its correction
for studying the reversibility of hypertrophy of the myocardium.

Eksper. khir. 5 no. 5:11-17 '60. (MIRA 14:1)

(AORTA—DISEASES)

SARKISOV, D.S. (Moskva, Novoslobodskaya ul., d.57/65, kv.11); KRYMSKIY, L.D.

Pulmonary changes in congenital heart defects. Grud.khir. 3
no.6:17-26 N-D '61. (MIRA 15:3)

1. Iz Instituta khirurgii imeni A.V. Vishnevskogo (dir. - deyst-
vitel'nyy chlen AMN SSSR prof. A.A. Vishnevskiy) AMN SSSR.
(LUNGS) (HEART--ABNORMITIES AND DEFORMITIES)

SARKISOV, D.S.

Problem of reversibility of chronic changes in the internal organs
and the method of studying it under experimental conditions. Vest.
AMN SSSR 16 no.8:3-8 '61. (MIRA 14:12)

1. Institut khirurgii imeni A.V.Vishnevskogo AMN SSSR.
(REGENERATION (BIOLOGY)) (MEDICINE, INTERNAL)

SHISHKIN, V. P.; SARKISOV, D. S.

Diagnosis and treatment of endophlebitis obliterans hepatica
(Chiari's disease). Khirurgia 37 no.7:90-93 J1 '61.
(MIRA 15:4)

1. Iz Instituta khirurgii imeni A. V. Vishnevskogo (dir. -
deystvitel'nyy chlen AMN SSSR prof. A. A. Vishnevskiy) AMN SSSR.

(HEPATIC VEINS—DISEASES)

SARKISOV, D.S.

Some methodical procedures aiding in the experimental study of
the reversibility of chronic changes in the internal organs.
Sbor.trud.Inst.khir.AMN SSSR no.1:9-13 '62. (MIRA 16:1)
(MEDICINE, INTERNAL)

SARKISOV, D.S.; DARBINYAN, T.M.; MAZAYEV, P.N.; KRYMSKIY, L.D.;
RUBETSKOY, L.S.

Data on the problem of the reversibility of lesions of the
cardiovascular syste. Sbor.trud.Inst.khir.AMN SSSR no.1:61-
83 '62. (MIRA 16:1)

(CARDIOVASCULAR SYSTEM--DISEASES)

SARKISOV, D.S.

Forms of regenerative reaction and reversibility of sclerotic
changes in the internal organs. Sbor.trud.Inst.khir.AMN SSSR
no.1:188-198 '62. (MIRA 16:1)
(SCLEROSIS) (REGENERATION(BIOLOGY)(MEDICINE, INTERNAL)

SARKISOV, D. S.

Forms of regenerative reaction. Eksper. khir. i anest. no.2:3-8
'62. (MIRA 15:6)

1. Iz Instituta khirurgii imeni A. V. Vishnevskogo (dir. -
deystvitel'nyy chlen AMN SSSR prof. A. A. Vishnevskiy) AMN SSSR.

(REGENERATION(BIOLOGY))

VOROPAYEV, M. M.; SARKISOV, D. S.; NIKANOROV, A. I.

Morphological pulmonary changes and the surgical technic for
[cases of] foreign bodies of several years duration. Khirurgia
38 no.5:28-33 My '62. (MIRA 15:6)

1. Iz 2-go khirurgicheskogo otdeleniya (zav. - kandidat medi-
tsinskikh nauk M. M. Voropayev) i otdela patologicheskoy anatomii
(zav. - doktor meditsinskikh nauk D. S. Sarkisov) Instituta
khirurgii imeni A. V. Vishnevskogo (dir. - deystvitel'nyy chlen
AMN SSSR prof. A. A. Vishnevskiy) AMN SSSR.

(LUNGS--FOREIGN BODIES)

DARBINYAN, T.M.; SARKISOV, D.S.; KRYMSKIY, L.D.; CHERNYAKHOVSKIY, F.R.

Postoperative pulmonary atelectasis in patients with congenital heart defects. Grud. khir. 5 no.6:26-34 N-D'63 (MIRA 17:2)

1. Iz Instituta khirurgii imeni A.V.Vishnevskogo (direktor deystvitel'nyy chlen AMN SSSR prof. A.A. Vishnevskiy) AMN SSSR. Adres avtorov: Moskva, B. Serpuhovskaya ul., d. 27. Institut khirurgii Imeni A. Vishnevskogo.

SARKISOV, D.S.; KRYMSKIY, L.D. (Moskva)

Characteristics of blood circulation in the lungs in congenital heart defects of the Fallot type. Arkh. pat. 25 nos 4:38-43 '63 (MIRA 17&4)

1. Iz Instituta khirurgii imeni A.V. Vishnevskogo (direktor deystvitel'nyy chlen AMN SSSR prof. A.A. Vishnevskiy) AMN SSSR.

SARKISOV, D.S.; KRYMSKIY, L.D. (Moskva)

Methodology of autopsy to examine the lungs for differentiation
of various forms of atelectasis. Arkh. pat. 25 no.7:84-85 '63
(MIRA 16:12)

1. Iz Instituta khirurgii imeni A.V.Vishnevskogo (dir. - dey-
stvitel'nyy chlen AMN SSSR prof. A.A. Vishnevskiy) AMN SSSR.

SARKISOV, D.S. (Moskva, A-55. Novoslobodskaya ul., 57/65, kv. 11)

Some characteristics of the regeneration of internal organs in
mammals. Arkh. anat., gist. i embr. 45 no. 10:3-12 0 '63.
(MIRA 17:9)

1. Institut khirurgii imeni A.V.Vishnevtskogo AMN SSSR,
Moskva.

SARKISOV, D.S.; VOROPAYEV, M.M.; MAZAYEV, P.N.; ADAMYAN, A.A. (Moskva)

Late results of healed gunshot wounds of the lungs. Arkh. pat.
26 no.8:21-27 '64 (MIRA 18:2)

1. Institut khirurgii imeni Vishnevskogo (dir. - deystvitel'nyy
chlen AMN SSSR prof. A.A. Vishnevskiy) AMN SSSR.

L 43104-65

ACCESSION NR: AR5008615

S/0299/65/000/004/M020/M020

SOURCE: Ref. zh. Biologiya. Svochnyy tom, Abs. 4M109

AUTHOR: Sarkisov, D. S.; Vtyurin, B. V.

TITLE: Regeneration on the basis of electron microscopic data

CITED SOURCE: Eksperim. khirurgiya i anesteziol., no. 5, 1964, 3-8

TOPIC TAGS: tissue regeneration, cellular regeneration, electron microscopy, cell structure, pathology, intracellular hyperplasia

TRANSLATION: The authors review the significance of electron microscopy as a method for studying changes in tissues and revealing the complexity and specificity of regenerative processes take

therefore not be considered as
Card 1/2

L 43104-65

ACCESSION NR: AR5008615

the existence of unity of form and function in various pathological states. L. Liozner

SUB CODE: LS

ENCL: 00

SARKISOV, D.S.; FIRSOVA, P.P.; NIKISHIN, A.A. (Moskva)

Giant-cell malignant thymoma. Arkh. pat. 26 no.12:26-31 '64.
(MIRA 18:5)

1. 2-ye khirurgicheskoye otdeleniye (zav. - doktor med.nauk
M.M.Voropayev) i otdel patologicheskoy anatomii (zav. - prof.
D.S.Sarkisov) Instituta khirurgii imeni Vishnevskogo (dir. -
deystvitel'nyy chlen AMN SSSR prof. A.A.Vishnevskiy) AMN SSSR.

DARBINYAN, T.M.; SARKISOV, D.S.; CHERNYAKHOVSKIY, F.R.

Changes in the lungs following endotracheal anesthesia with artificial ventilation in an experiment. Eksper. khir. i anest. 9 no.6:50-59 N-D '64. (MIRA 18:7)

1. Institut khirurgii imeni A.V.Vishnevskogo (direktor - deystivel'nyy chlen AMN SSSR prof. A.A.Vishnevskiy) AMN SSSR, Moskva.

SARKISOV, Donat Semenovich; RUBETSKOY, Luka Spiridonovich;
GRISHKEVICH, E.V., red.

[Methods of restoring a cirrhotic liver] Puti vosstanov-
leniia tsirroticheskoi izmenennoi pecheni. Moskva, Medi-
tsina, 1965. 137 p. (MIRA 18:9)

VOROPAYEV, M.M.; SARKISOV, D.S.; MAZAYEV, P.N.; ADAMYAN, A.A.;
AVERBAKH, M.M., red.

[Late sequelae of blind gunshot wounds of the lungs]
Otdalennye posledstviia slepykh ognestrel'nykh ranenii
legkikh. Moskva, Meditsina, 1965. 140 p.
(MIRA 18:9)

SARKISOV, D.S.; VTYURIN, B.V.

Electron-microscopic findings on regeneration. Eksper. khir.
i anest. 9 no.5:3-8 S-O '64. (MIRA 18:11)

1. Institut khirurgii imeni A.V.Vishnevskogo (direktor -
deystvitel'nyy chlen AMN SSSR prof. A.A.Vishnevskiy) AMN SSSR,
Moskva.

KULIYEVA, Kh.D.; VINOGRADOV, V.V.; SARKISOV, D.S.; VOLYNSKIY, Yu.D.

Posttraumatic thrombosis of the portal vein with the development of cirrhosis and hepatoma of the liver. Azerb. med. zhur. 41 no.8:69-72 Ag '64. (MIRA 18:11)

1. Iz Instituta khirurgii imeni Vishnevskogo AMN SSSR (dir. - deystvitel'nyy chlen AMN SSSR, prof. A.A. Vishnevskiy). Submitted November 22, 1963.

VILYAVIN, G.D.; SARKISOV, D.S.; DAUROVA, T.T.

Metastasis of ovarian cilioepithelial cyst to the pancreas; one observation. Vop. onk. 11 no.12:88-89 '65. (MIRA 19:1)

1. Iz Instituta khirurgii imeni Vishnevskogo AMN SSSR (dir. - deystvitel'nyy chlen AMN SSSR prof. A.A. Vishnevskiy).

SARKISOV, E. A.

021.368.5 ; 021.518.21
✓ 2887 HEATING OF INLET SCREENS OF WATER POWER
STATIONS (TO PREVENT ICE FORMATION). E. A. Sarkisov and
M. Cherepanov
Gidrotekh. Stroit., 1956, No. 9, 36-40. In Russian.
Describes arrangement and results of experiments with induction heating in order to prevent ice formation during cold weather.
Gives data on heat requirements and other factors including surface area of the rods and water velocity. E. B. Buzanov

SARKISOV, E.A., inzh.; CHEREPANOV, I.M., inzh.

Induction heating of trash racks. Trudy Gidroproekta no.1:77-82
'58. (MIRA 11:9)
(Induction heating) (Hydroelectric power stations)

SARKISOV, E.A.

The city of Tushino. Gor. khoz. Mosk. 34 no.11:7-9 E '60.
(MIRA 13:11)

1. Predsedatel' ispolkoma Tushinskogo gorodskogo Soveta.
(Tushino--City planning)

KUPERSHMIT, Sh.N.; SARKISOV, E.F.

Effect of d.c. magnetic fields on the performance of polarized
relays. Stan. i instr. 36 no.9:20 S '65. (MIRA 18:10)

1ST AND 2ND CODES										3RD AND 4TH CODES									
PROCESSES AND PROPERTIES INDEX																			
6 <i>*On the Problem of the Investigation of the Formation of Layers in Unstirred Deposits of Copper. A. T. Vagramjan and E. M. Narkisov (Izvestia Akademi Nauk S.S.S.R. (Bull. Acad. Sci. U.R.S.S.), 1966, [VII], (10), 1411-1417).— [In Russian.] It is shown that it is possible to obtain streaks on copper deposits in an acid medium, wherein hydrolysis of copper sulphate actually takes place; this is in disagreement with Taft's results. The streaked deposit is formed both with and without gelatine, and whether the electrolyte is stirred or not. The formation of the streaky deposits is considered to be produced by the varying rates of growth of the deposit on different parts of the cathode, depending in their turn on the distribution of the lines of force on the cathode surface and on the thickness of the diffusion layer there. - N. A.</i>																			
ASH-SLA METALLURGICAL LITERATURE CLASSIFICATION																			
1ST AND 2ND CODES										3RD AND 4TH CODES									
1ST AND 2ND CODES										3RD AND 4TH CODES									

Electrodeposition of copper. R. S. Sarkisov and A. T. Bagramyan. *Russ. 45,781, Jan. 31, 1959.* Cu is deposited at high c. d. in the presence of rayon in the electrolyte, under intensive agitation. The deposit has a mirror-like surface.

A 3 - 32 - METALLURGICAL LITERATURE CLASSIFICATION

77

•New Effect in Electrode Processes. E. S. Sarkisov and P. F. Michalev
(Zhur. Fizich. Khimii (J. Phys. Chem.), 1936, 8, (4), 538-542; Brit. Chem. Abs.,
1937, [A1], 245).—[In Russian.] The relation between cathodic polarization
and the structure of deposits of copper and nickel was studied by the use of an
apparatus permitting change of the p.d. (V) between the electrodes without
changing the electrolyte and the e.d. Increase in V increases the polarization
and changes correspondingly the character of the deposit.—R.G.

ASM-ISA METALLURGICAL LITERATURE CLASSIFICATION

FROM SIMILAR

TO SIMILAR

GROUP

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A-1

Influence of the composition of the electrolyte on the electrodeposition of iron. E. S. BARENDOV (Dokl. Akad. Nauk SSSR, 1967, 411, 1000). The rate of electrodeposition of iron with increasing acid concentration of 0.5M solutions of Fe²⁺ and Fe³⁺ is greatest in the case of FeCl₂-CaCl₂ solutions, and then decreases in the order (NH₄)₂SO₄-FeSO₄, FeSO₄, FeCl₃. As for the val. of α (time very little with increasing α). For all the systems the order was found: FeCl₂ > FeCl₃ > (NH₄)₂SO₄-FeSO₄ > FeCl₂-CaCl₂. The val. of α obtained in presence of Fe³⁺ are > when Fe²⁺ alone is present. The structure of the deposits of Fe changes with change in the composition of the electrolyte. E. T.

AIN-51A METALLURGICAL LITERATURE CLASSIFICATION

FROM STATIONARY

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1ST AND 2ND ORDERS																										3RD AND 4TH ORDERS																									
PROCESSES AND PROPERTIES INDEX																																																			
BC A-1 Electrocrystallization of metals with and without connexion of the electrode to earth with a continuous current and a high-voltage source of supply. E. S. SARKISOV (Bull. Acad. Sci. U.R.S.S., 1938, Ser. Chim., 519—528).—In the absence of earth connexion a coarser-grained electrolytic deposit is produced, polarisation is increased, and passivation (in the case of Ag crystals) is diminished. L. J. J. ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION																																																			
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131 AND THE DESIGN PROCESS AND PROPERTIES INDEX

B-I-4

RECIPROCAL DISPLACEMENT OF METALS FROM VAPOURS OF THEIR SALTS, AND APPLICATION OF THIS PROCESS TO PREVENTION OF CORROSION. N.A. Igarischev and E.S. Sakhlov (J. Gen. Chem. Russ., 1938, 8, 830-833).—Bright, adherent coatings of Cr are deposited on Fe or steel by heating at 1100° (4 hr.), and then at 875° (3 hr.) in a current of H_2 containing $CrCl_3$. Steel articles can be similarly coated with W. In the case of Ni the coatings are dull and non-adherent, but satisfactory Ni-Cr coatings are obtained by conducting the process with a mixture of Ni and Cr chlorides. (R.T.)

ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION

FROM SYNTHESE

FROM DOMINO

FROM SYNTHESE

FROM DOMINO

**The Mutual Displacement of Metals from the Vapours of Their Salts and the Application of this Process in the Fight Against Corrosion.* N. A. Izgarishev and E. S. Berghaus (*Dokl. Akad. Nauk S.S.S.R. (Compt. rend. Acad. Sci. U.R.S.S.),* 1958, [N.S.], 10, (7), 435-438 (in Russian); and *Compt. rend. (Doklady) Acad. Sci. U.R.S.S.,* 1958, 10, (7), 437-440 (in English)). Chromium chloride vapour was formed by treating the metal with dry hydrogen chloride and hydrogen. It gave on Armeo iron a chromium film the thickness of which varied between 0.0008 and 0.272 mm. according to the temperature (875°-1100° C.) and the time (1-7 hrs.) of the reaction. The chromium-coated samples had a high corrosion-resistance to a 10% sodium chloride solution for 10 days, as well as to damp air containing 10% carbon dioxide and 10% hydrogen sulphide for 60 hrs.—N. A.

1ST AND 2ND LETTERS																									
PROCESSES AND PROPERTIES INDEX																									
CA Protective aluminum and chromium coatings (formed) from the vapor of their salts. R. S. Sarkisov. <i>J. Appl. Chem. (U. S. S. R.)</i> 12, 487-92 (in French, 1958). See C. A. 33, 5794. A. A. Podkolov 9																									
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